Work Order ID 69222

Thursday, May 05, 2011 11:46:00 AM



Page 1

tem ID:

D3391-023

Accept



Setup Start



Item Name: Start Date:

evision ID:

Mid Tube Assembly

Start Qty: 1.00

5/5/2011 Required Date: 5/20/2011

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:

QC:

Date: //-05-5

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run



Sequence ID/ Work Center ID

Operation Description Set Up/ **Run Hours** Tool ID

Tool#

Plan

Code

Accept **Qty**

Reject Qty

Reject Insp. Number Stamp

Draw Nbr

Revision Nbr

D3391 Rev H

Skidtubes

Skidtubes

Skidtubes

0.00

0.00

1-Cut tube to finish length as per Dwg D3391

2-Identify as D3391-023

3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391

4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail

5-Remove .030" from Fwd indexing Ridge as per Dwg D3391

6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391

7-Deburr

Memo

8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker.

9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J"

10-Open wearplate holes of D3391-023 assembly detail section H-H to (20 holes) as per Dwg D3391

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| | | | | | | | | | | ATT. |
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| W/O: | | | WC | ORK ORDER CHAN | GES | | | · | | |
| DATE | STEP | PRO | CEDURE CHA | NGE | В | / | Date | Qty | Approval® Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | : | PAR #: | Fault Cate | gory: | NCR: \ | es N | lo DQ | A: | _ Date: _ | |
| | Re | esolution: | Dispositio | n: | QA: N/ | C Clos | sed: | | Date: | |
| NCR: | | | WORK ORD | ER NON-CONFORM | MANCE (N | ICR) | | | | |
| DATE | OTED | Description of NC | | | ection B | | Verific | cation | Approval | Approval |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | | gn & Date | | ion C | Chief Eng | QC Inspector |
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NOTE: Date & initial all entries

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Thursday, May 05, 2011 11:46:00 AM



Page 2

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Start

Stop

Stop

Sequence ID/ Work Center ID Operation Description Set Up/

Tool ID

Tool# Plan Accept

Reject

Insp. Reject

OC:

Run Hours

Code

Qty

Qty

Number

Stamp

11-Open .375" holes to .438" ***do not open fwd saddle holes***

12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly tranfer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previously drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

4,54

| W/O: | | | WC | ORK ORDER CHANG | ES | | | | T. N. Mark |
|---------|-------------------|-------------------|---|------------------------------|------------|-------|---------------------|-------------------------------|--------------------------|
| DATE | STEP | PRO | CEDURE CHA | NGE | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | : | PAR #: | Fault Cate | gory: | _ NCR: Yes | No DO | QA: | Date: _ | |
| . 7 | [∆] a Re | esolution: | | | | | | Date: _ | |
| NCR: | , ` | ' | WORK ORD | ER NON-CONFORM | ANCE (NC | R) | | | |
| DATE | STEP | Description of NC | Initial | | ion B Sign | | ication | Approval | Approval |
| , \$ | 1 | Section A | Chief Eng | Action Description Chief Eng | Date | | ction C | Chief Eng | QC Inspector |
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Work Order ID 69222

Thursday, May 05, 2011 11:46:00 AM



Page 3

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Reg'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Run

Start

Stop

Stop



QC:

Date:

SPC (Y/N):

Reject

Insp.

Sequence ID/ **Work Center ID**

110

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Memo

Set Up/ Run Hours

0.00

Tool ID

Tool# Plan Code

Accept Qty

Otv

Reject Number

Stamp

120

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

0.00

130

QC

OC3-Inspect Part Finish

0.00

Memo

Memo

0.00

1 H 11-5-24

Quality Control

| W/O: | | | W | ORK ORDER CHANGE | ES | | | <u></u> | | | 1, 1 |
|---------|------|-------------------|----------------------|------------------------------|-----|--------------|-------|-----------|-------|-------------------------------|--------------------------|
| DATE | STEP | PRO | OCEDURE CHA | ANGE | | Ву | Da | ate | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | | PAR #: | | | | | | | | | |
| | R | esolution: | Disposition | on: | QA: | N/C C | Close | d: | | Date: _ | <u></u> |
| NCR: | | | WORK ORD | ER NON-CONFORMA | NCE | (NC | R) | | | | |
| DATE | STEP | Description of NC | | Corrective Action Section | n B | ٥, | , | | ation | Approval | Approval |
| DATE | SILF | Section A | Initial Chief Eng | Action Description Chief Eng | | Sign Date | | Section C | | Chief Eng | QC Inspector |
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Work Order ID 69222

Thursday, May 05, 2011 11:46:00 AM



Page 4

Item ID:

D3391-023

Accept



Setup Start



Stop

Revision ID: Item Name:

Mid Tube Assembly

Start Date: 5/5/2011 Required Date: 5/20/2011 Start Qty: 1.00

Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Reject

Qty

Accept

Otv

Start

Date:_____

SPC (Y/N):

Date:

Tool #

Plan

Code

Stop

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

140

Skidtubes Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours**

0.00

0.00

1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg

3- Prepare tube for welding

4-Bond web in place as per Dwg D3391 & OSI 015.

Adhere for 12 hours) A/R Sikaflex exp: 12/01/16 batch#: 117 Si6

150

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

Memo

0.00

160

Skidtubes

Skidtubes

0.00

0.00

1-Weld crossbolt spacer as per dwg D3391 & QSI 004 Skidtubes

2-grind weld flush

M116577

| W//O- | | | \A/C | DI ODDED OU | ANOFO | | | | | 1 |
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| W/O: | STEP | PRO | OCEDURE CHA | ORK ORDER CHA | ANGES | Ву | Date | Qty | Approval Chief Eng / | Approval QC Inspector |
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| Part No | • | PAR #: | Fault Cate | gory: | NCI | R: Yes | No DQ . | A : | _ Date: _ | |
| | Res | solution: | Disposition | n: | QA: | N/C CI | osed: | | Date: _ | |
| NCR: | | | WORK ORDI | ER NON-CONFO | RMANCE | (NCR |) | | | |
| DATE | STEP | Description of NC | | Corrective Action Section B Initial Action Description | | | | cation | Approval | Approval |
| | 0121 | Section A | Chief Eng | Action Descrip Chief Eng | tion | Sign & Date | Secti | ion C | Chief Eng | QC Inspector |
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Work Order ID 69222

Thursday, May 05, 2011 11:46:00 AM



Page 5

Item ID:

D3391-023

Accept

Setup Start



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 5/20/2011

5/5/2011

Start Qty: 1.00

Req'd Oty: 1.00

Cust Item ID: **Customer:**

Reference:

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Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop

Stop



Date:

SPC (Y/N):

Date:

Tool ID

Tool # Plan

Code

Accept Qty

Reject Reject Qty

Insp. Number Stamp

Work Center ID 170

Sequence ID/

QC

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours**

0.00

0.00

180

OC

QC5- Inspect part completeness to step on W/O

0.00

0.00

1 wos 76

Memo

Ouality Control

185

Hand Finishing

HandFinish

Pressure Wash per QSI005 4.3

Memo

0.00

0.00

AND REALODINE AS PER PAR09-043

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|---------|------|-------------------|----------------------|------------------------------|---------|-------------|--------------|------------|-------------------------------|--------------------------|--|--|
| W/O: | | | GES | | | | | | | | | |
| DATE | STEP | PRO | OCEDURE CH | ANGE | | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector | | |
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| Part No | : | PAR #: | Fault Cate | egory: | NCF | R: Yes | No DQ | A : | _ Date: _ | | | |
| | Re | solution: | Disposition | on: | QA: | N/C CI | osed: | | Date: _ | | | |
| NCR: | | , | WORK ORD | DER NON-CONFORM | ANCE | (NCR |) | | | | | |
| DATE | CTED | Description of NC | | | ction B | | Verifi | cation | Approval | Approval | | |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | | Sign & Date | | ion C | Chief Eng | QC Inspector | | |
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Work Order ID 69222

Thursday, May 05, 2011 11:46:00 AM



Page 6

Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Required Date: 5/20/2011

Mid Tube Assembly

Start Date:

5/5/2011

QC:

Start Oty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID: **Customer:**

Tool ID

Reference:

| An | prova | ls: |
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Process Plan:

Date: _____

Tooling:

SPC (Y/N):

Date: Date:

Tool # Plan

Code

Start Run

Stop



Insp.

Stamp

Sequence ID/ **Work Center ID**

190

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

Memo

START TIME: OVEN TEMPER Set Up/ **Run Hours**

0.00

0.00

FINISH TIME:

200

Quality Control

QC3- Inspect Part Finish

0.00

0.00

Reject

Qty

Accept

Qty

1 BR 11-5-26

Reject

Number

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| W/O: | | | WC | RK ORDER CHAN | GES | | | | | |
|---------|------|-------------------|----------------------|------------------------------|----------|-------------|---------|-------|-------------------------------------|--------------------------|
| DATE | STEP | PRO | OCEDURE CHAI | NGE | Ву | D | ate | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | : | PAR #: | Fault Cate | gory: | NCR: Y | es No | DQA | · | Date: | |
| • | Res | solution: | Dispositio | 1: | QA: N/0 | Close | ed: | | Date: _ | |
| NCR: | | , | WORK ORDI | ER NON-CONFORM | MANCE (N | CR) | | | | |
| DATE | STEP | Description of NC | | | ection B | | Verific | ation | Approval | Approval |
| DATE | SIEP | Section A | Initial Chief Eng | Action Description Chief Eng | | gn & ate | Section | on C | Chief Eng | QC Inspector |
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Work Order ID 69222

Thursday, May 05, 2011 11:46:00 AM



Page 7

D3391-023 Item ID: Accept Setup Start **Revision ID:** Stop Mid Tube Assembly Item Name: **Start Date:** 5/5/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 5/20/2011 **Req'd Qty:** 1.00 **Customer:** Reference: Start Run Approvals: **Process Plan:** Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Set Up/ Tool # Plan Accept Reject Reject Insp. Work Center ID Description Code Qty **Run Hours** Qty Number Stamp 210 0.00 Skidtubes 0.00 Skidtubes Memo 1- insert D3391-021 into D3391-23 Skidtubes 2- insert T-pins into first and third fwd saddle holes 3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364 4- remove T-pins and locate DT9415 from first and third crossbolt hole using T--5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415 6- deburr, re-alodine and blow out chips 7- press fit D3591-1 spacers using DT9416 starting from 0.500" side 220 QC5- Inspect part completeness to step on W/O 000 S Worlzo

Quality Control

Memo

QC

| W/O: | | *************************************** | ٧ | ORK ORE | DER CHA | NGES | | | | | ······ | | |
|---------|------|---|----------------------|------------|--------------------------|-----------|----------------|--------------|--------|-------------------------------|--------------------------|--|--|
| DATE | STEP | PRC | CEDURE CH | IANGE | | , | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector | | |
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| Part No | : | PAR #: | Fault Ca | tegory: | | NCI | R: Yes | No DQ | A: | Date: _ | Date: Date: Approval | | |
| | Re | esolution: | Disposit | ion: | | QA | N/C CI | osed: | | Date: _ | | | |
| NCR: | | \ | WORK OR | DER NON | -CONFO | RMANCE | (NCR |) | _ | | | | |
| DATE | STEP | Description of NC | | Corrective | | Section B | | Verifi | cation | Approval | Approval | | |
| DATE | SIEF | Section A | Initial Chief Eng | Actio | on Descript Chief Eng | | Sign & Date | Sect | ion C | Chief Eng | | | |
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Page 8

Thursday, May 05, 2011 11:46:00 AM Item ID: D3391-023 **Revision ID:** Item Name: Mid Tube Assembly Start Qty: 1.00 Start Date: 5/5/2011 Required Date: 5/20/2011 Reg'd Qty: 1.00 Reference:

Setup Start

Cust Item 1D:

Customer:

| Approvals: | Process Plan: | Date: | Date: Tooling: Date: | R | tun Sta | rt | | | | | |
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| 11pprovide | QC: | Date: | SPC (Y/N): | | ate: | · | | Stop | р | | |
| Sequence ID/ Work Center II | Operation Description | | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp | |
| 230 | | | 0.00 | | | | | | | | |

HandFinish

Hand Finishing

HandFinishing

Memo Install Inserts as per Dwg

QC5- Inspect part completeness to step on W/O

Identify as per dwg & Stock Location: W 0

Accept

0.00

1 9 Al Mos(27

240

Quality Control

Memo

0.00 412-7-12-043/369242

250

Packaging

Packaging

Memo

0.00

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| W/O: | | | WC | ORK ORDER CHANG | ES | | | • |
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| Part No | : | PAR #: | Fault Cate | gory: | _ NCR: Yes | No DQA: _ | Date: _ | |
| | Re | solution: | Dispositio | n: | _ QA: N/C Clo | osed: | Date: _ | |
| NCR: | | , | WORK ORD | ER NON-CONFORM | ANCE (NCR |) | | |
| DATE | OTED | Description of NC | | | tion B | Verification | on Approval | Approval |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | Section C | | QC Inspector |
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| Work Ord Thursday, May | | | | | | | | | | | | Page 9 |
|-----------------------------|-------------|--------------------------|-------|----------------------|----------|----------|--------------|--------------------------|---------------|-------|------------------|----------------|
| Item ID: Revision ID: | D3391-023 | | | Accept | | | | | Setup | | | |
| Item Name: | Mid Tube As | sembly | | | | | | | | Stop | | |
| Start Date: | 5/5/2011 | Start Qty: 1.00 | | | Cust Ite | em ID: | | | | | | |
| Required Date | : 5/20/2011 | Req'd Qty: 1.00 | | | Custom | ier: | | | | | | |
| Reference: | | | | | | | | | | | | |
| Approvals: | Process Pla | an: | Date: | Tooling: | | Date: | | | Run | Start | | |
| | QC: | | Date: | SPC (Y/N): | | Date: | | | | Stop | | |
| Sequence ID/ Work Center | I D | Operation Description | | Set Up/ Run Hours | Tool I | D Tool # | Plan Code | Acce _l Qty | ot Rej Qty | | Reject Number | Insp. Stamp |

0.00

0.00

Quality Control

260

QC21- Final Inspection - Work Order Release

Memo

| W/O: | | | RK ORDER CHANG | ES | * 1 | | | | |
|---------|------|--|----------------------|------------------------------|----------------|---------|-------|-------------------------------------|--------------------------|
| DATE | STEP | PRO | CEDURE CHAI | NGE | Ву | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | * | PAR #: | Fault Cate | 3ory: | _ NCR: Yes 1 | No DQA | | Date: _ | |
| | R | esolution: | Disposition | 1: | QA: N/C Clo | sed: | | Date: _ | |
| NCR: | | \ | WORK ORDI | R NON-CONFORM | ANCE (NCR) |) | | | |
| | | Description of NC Corrective Action | | | ion B | Verific | ation | Approval | Approval |
| DATE | STEP | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | Section | | Chief Eng | QC Inspector |
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Picklist Print

Thursday, May 05, 2011 11:46:06 AM

Work Order ID: 69222

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly

Start Date: 5/5/2011

Start Qty: 1.00

Required Date: 5/20/2011

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

KJ/EC□ $EC\square$

07.03.20 rev F dwg IPP C re-format

EC

IPP D 07.03.28

EC

IPP E 07.10.31 ecn 1053P

EC

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP

Rev:J add in seq 140 expire date &b# sikaflex DD 10.02.17 verified by:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seg ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|-----------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| Skidtube Extrusion | | Manufactured | No | | | 100 | Each | 95.0000 | i | 1 | BEU | 05/19 | , P |
| | | | | Location | | Loc | <u>Qty</u> | Loc Code | | | , | / | |
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| | | | | | 37065 50251 | | 13 82 | | | | | | |
| D3391-021 | | Manufactured | No | ,, | - | 100 | Each | 0.0000 | 1 | 1 | \sim | | |
| Fwd Tube Assembly D3389-1 Web | | Manufactured | No | E | X86, | 75 | Each | 2.0000 | | 1 | | 11-5 | 5-10 |
| web | | | | <u>Location</u> LG | 590 57 | Loc | Oty 2 | Loc Code | | | B11 | 105/ | 18 |

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68999

| W/O: WORK ORDER CHANGES | | • |
|---|-------------------------------|---|
| DATE STEP PROCEDURE CHANGE By Date Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No: PAR #: Fault Category: NCR: Yes No DQA: | Date: _ | , |
| Resolution: Disposition: QA: N/C Closed: | Date: _ | *************************************** |
| NCR: WORK ORDER NON-CONFORMANCE (NCR) | | |
| DATE STEP Description of NC Corrective Action Section B Verification | Approval | Approval |
| DATE STEP Section A Initial Chief Eng Chief Eng Sign & Date Section C | Chief Eng | QC Inspector |
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Thursday, May 05, 2011 11:46:07 AM

Work Order ID: 69222

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



68958

Location

LG

D3681-1

Spacer

D3591-1

No Manufactured

No Manufactured

160

210

Loc Qty

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Each

Each

19.0000

55.0000

Loc Code

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Start Date: 5/5/2011

Start Qty: 1.00

k20

1105/27

Required Date: 5/20/2011

Required Qty: 1.00

Bushing

ALS4-1032-130 Purchased No

Insert

| Location | Lo | c Oty |
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| ST068 | | 55 |
| 5 <u>7350.</u> | | 18 |
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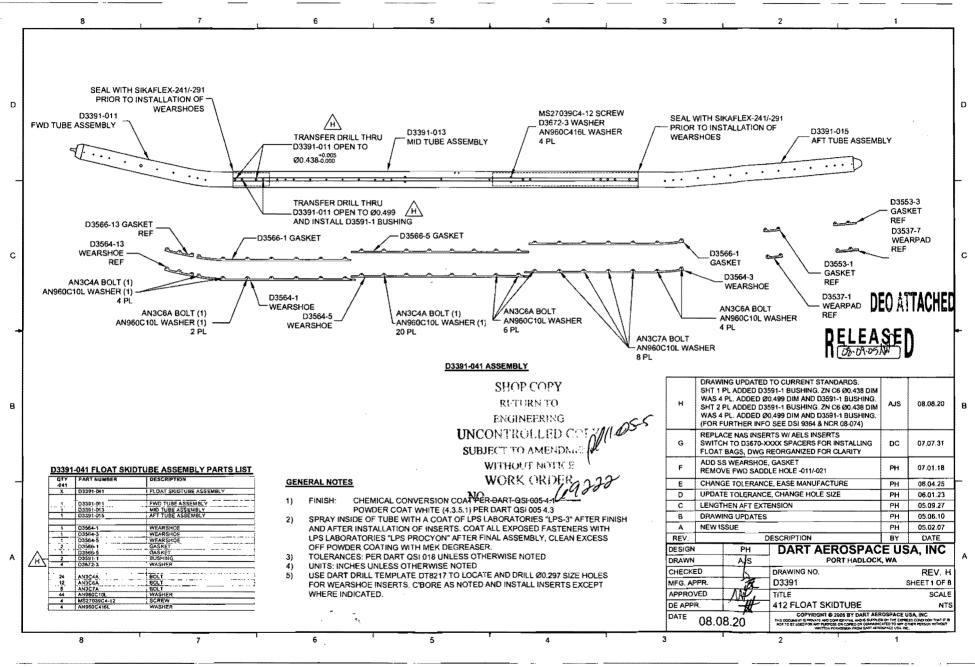
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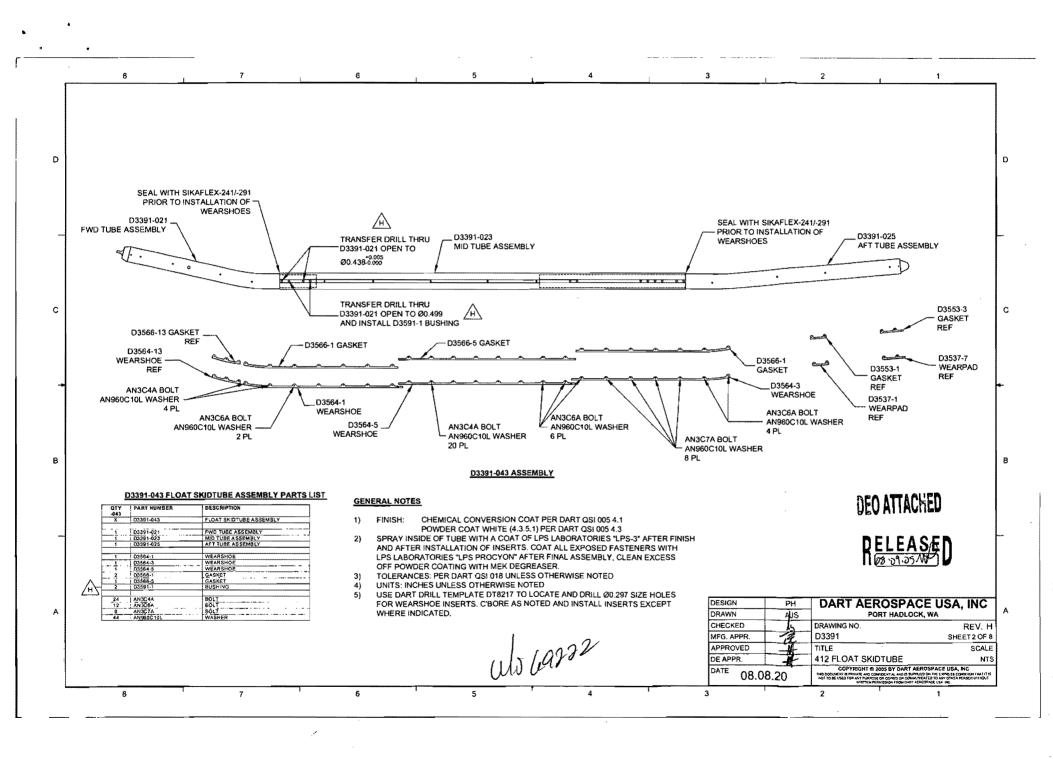
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Location Loc Oty Loc Code ST281 1338 117331 1338

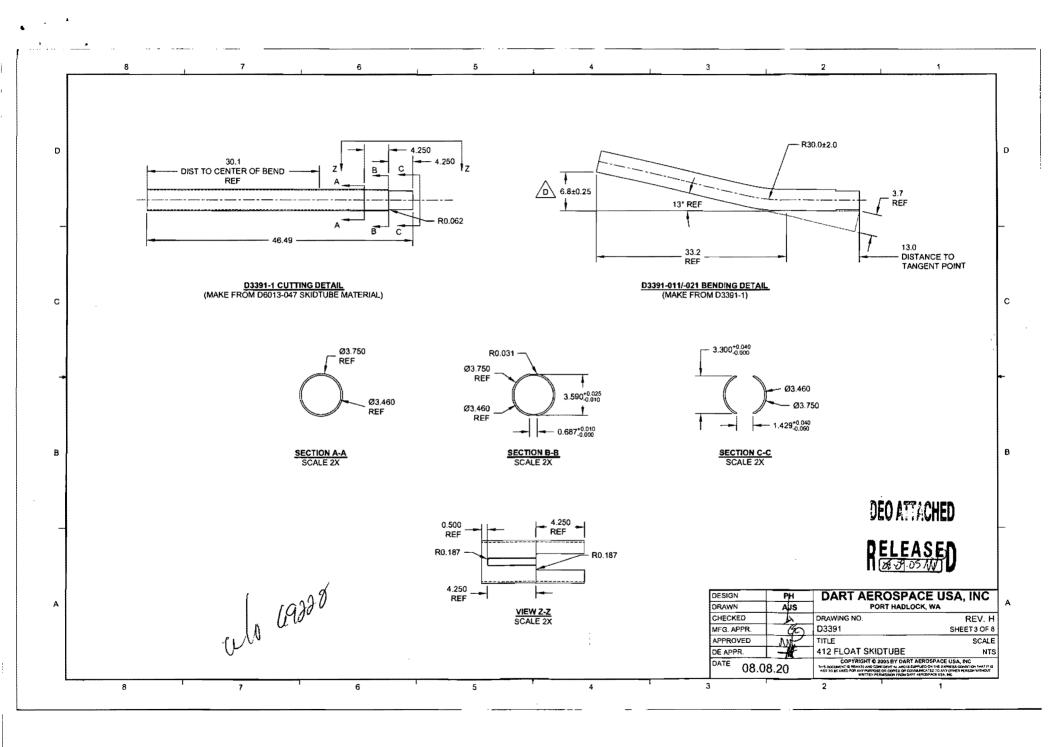
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| W/O: | | | WORK ORDER CHANGES | | | | | | | |
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| | Re | esolution: | Dispositio | n: | _ QA: N/C CI | osed: | | Date: _ | | |
| NCR: | | | WORK ORD | ER NON-CONFORM | ANCE (NCR |) | | | | |
| DATE | STEP | Description of NC Corrective Acti | | | tion B | Verific | cation | Approval | Approval | |
| DAIL | SILF | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | Sect | ion C | Chief Eng | QC Inspector | |
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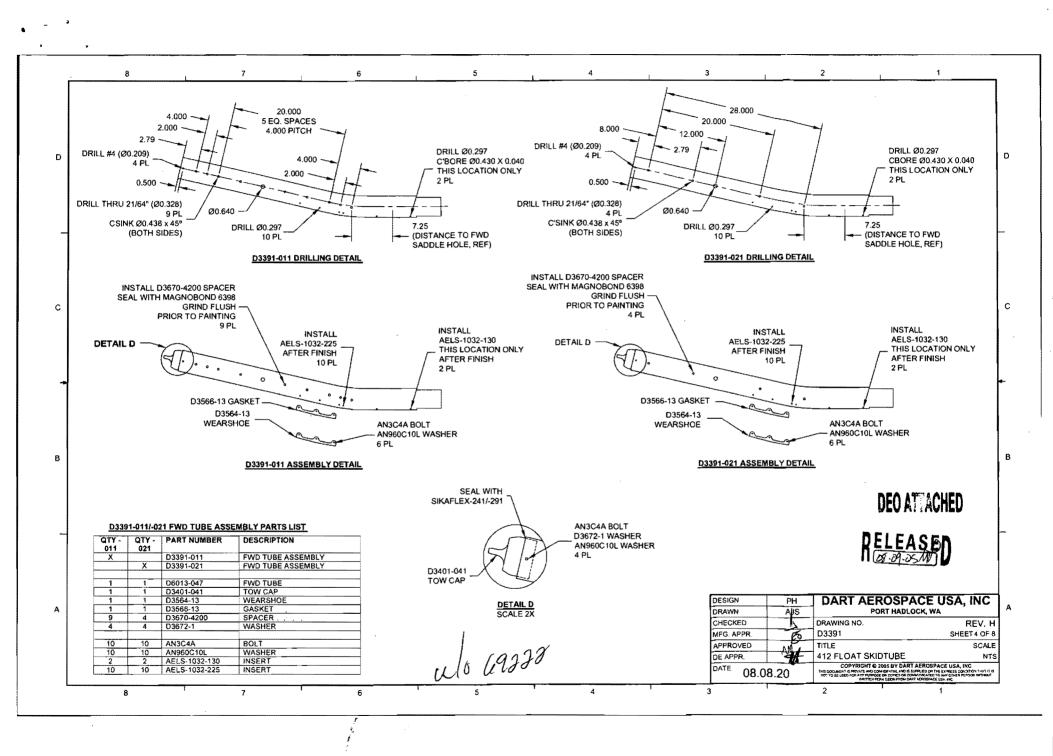
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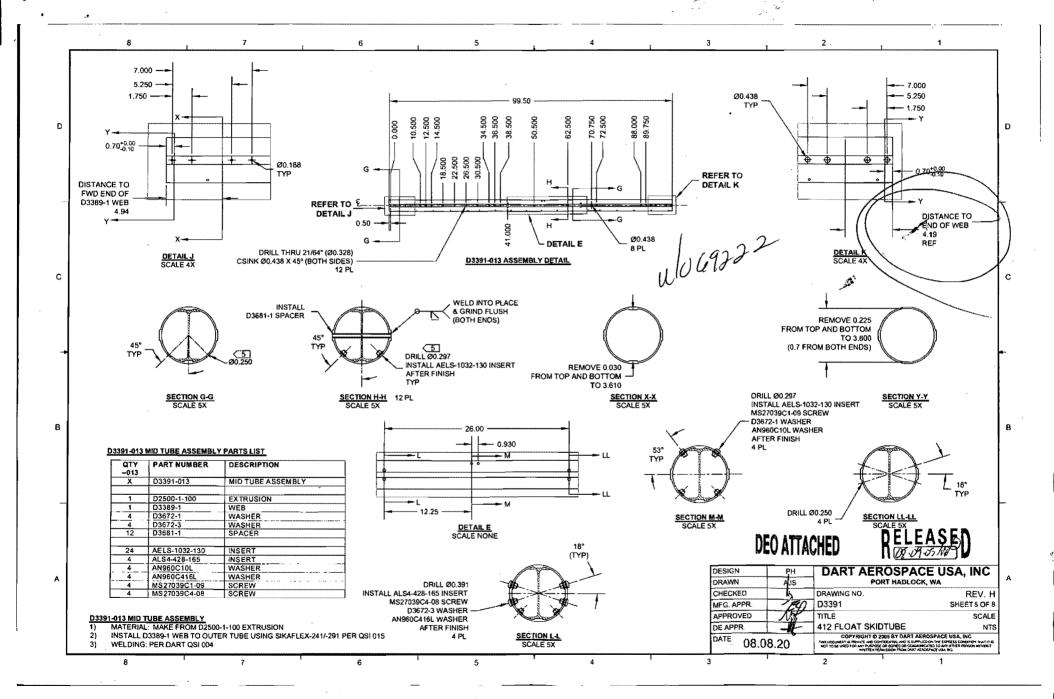
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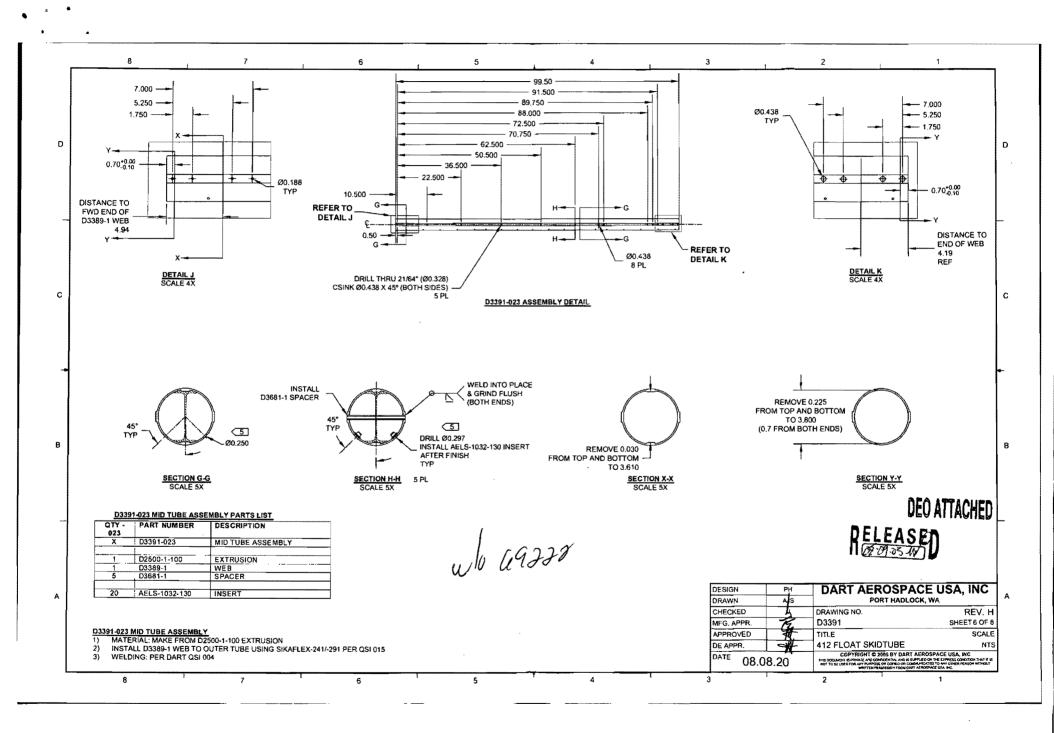
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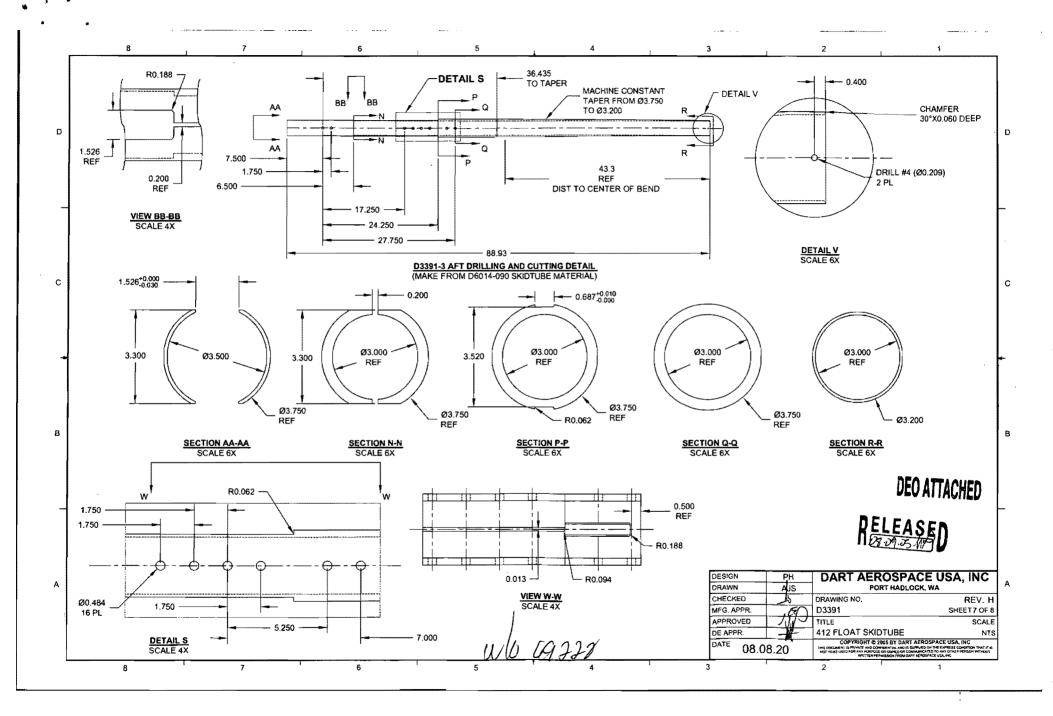
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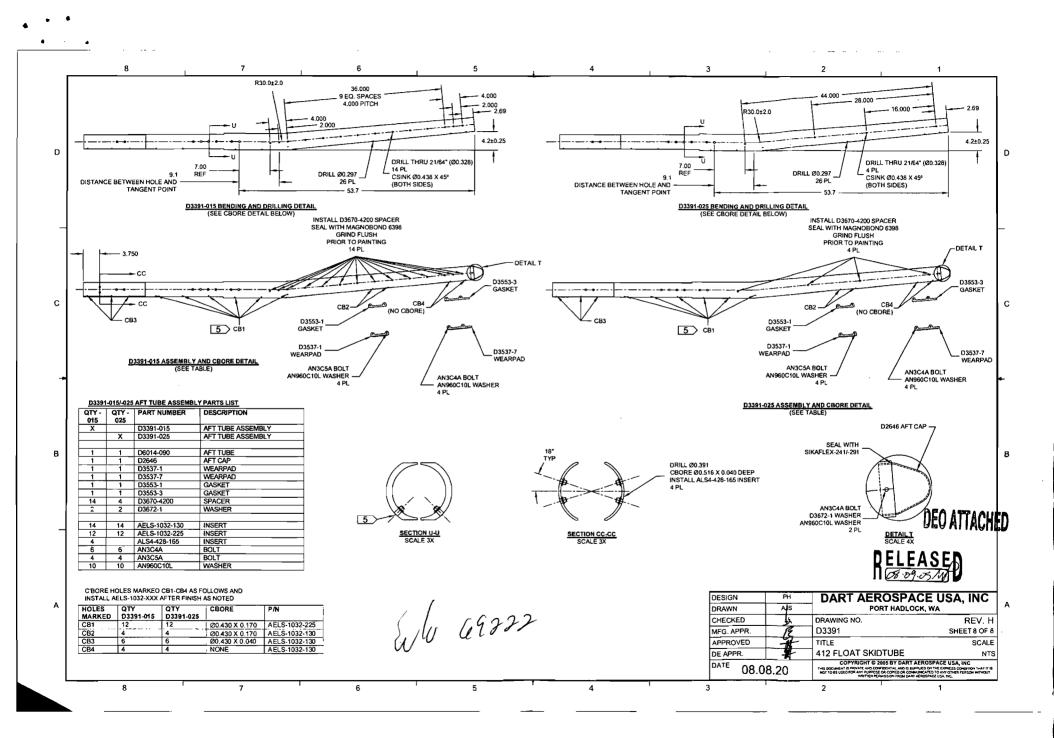
| WORK ORDER CHANGES DATE STEP PROCEDURE CHANGE By Date Qty Chief Eng / Prod Mgr OC Inspecto Part No:PAR #: Fault Category:NCR: Yes No DQA:Date: Resolution:Disposition:QA: N/C Closed:Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NCCorrective Action Section B | | • | | | | | | | |
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| Part No:PAR #: Fault Category: NCR: Yes No DQA: Date: Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A Approval Initial Action Description Sign & Section C Chief Eng Of Prod Mgr OC Inspecto | W/O: | | | WC | RK ORDER CHANG | ES | | | |
| Part No:PAR #: Fault Category:NCR: Yes No DQA:Date: Resolution:Disposition:QA: N/C Closed:Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC | DATE | STEP | PRO | PROCEDURE CHANGE | | | Date Q | ty Chief Eng / | Approval QC Inspector |
| Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A Approval | | | | | | | | | |
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| Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A Approval | | | 2 | | | | | | |
| Resolution: Disposition: QA: N/C Closed: Date: NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A Approval | | | | | | | | | |
| NCR: WORK ORDER NON-CONFORMANCE (NCR) DATE STEP Description of NC Section A Section B Section B Verification Approval A | Part No | | PAR #: | Fault Cate | gory: | NCR: Yes | No DQA:_ | Date: _ | |
| DATE STEP Description of NC Section A Section B Section B Verification Approval Approval Section A Section C Chief Eng OC Inspects | | Re | solution: | Dispositio | ı: | _ QA: N/C Cld | sed: | Date: _ | |
| DATE STEP Description of NC Initial Action Description Sign & Verification Approval | NCR: | | | WORK ORDI | ER NON-CONFORM | ANCE (NCR |) | | |
| Section A Initial Action Description Sign & Section C Chief Eng. OC Inspects | DATE | Description of NC | | | | | | | Approval |
| | DAIL | SILF | Section A | | | Sign & Date | Section C | Chief Eng | QC Inspector |
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| | SIEP | Section A | Initial Chief Eng | Action Description Chief Eng | Sign & Date | Sect | tion C | Chief Eng | QC Inspector |
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| DATE | STEP | Description of NC Section A | Corrective Action Section | | | - verificat | | 1 Approval | Approval | |
| DATE | SIEP | | Initial Chief Eng | Action Description Chief Eng | Sign 8 Date | k Section | | Chief Eng | QC Inspector | |
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| DRAWING NO. | TITLE | | REV. H DART A | EROSPACE USA, I | NC D.E.O. NO. | | SHEET NO. | SCALE |
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| D3391 | 412 FLOAT SKII | DTUBE , | ENG | INEERING ORDER | D3391-H-1 | • | SHEET 1 OF | NTS |
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| DATE 09.09 | 0.23 DAT | TE 04.04. | 24 DATE | 09/09/25 | DATE 09/0 | 9/30 | DATE 09/0 | 9/30 |

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A GOAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

PELEASE 2010 -02- 0 2

ANP.

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| W/O: | | - (| N. N | VORK ORDER CH | IANGES | | | | , F . |
|-------------|------|--------------------------------|----------------------|---------------------------------|-----------|-----------|---------------------------|-------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | | | | | Date Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| Part No | : | PAR #: | _ Fault Ca | tegory: | NC | R: Yes N | lo DQA: | Date: _ | |
| Resolution: | | | _ Disposit | ion: | QA | : N/C Clo | Date: _ | Date: | |
| NCR: | | W | ORK OR | DER NON-CONF | ORMANC | E (NCR) | - | . t. | ्र रीक |
| DATE | STEP | Description of NC Section A | Initial Chief Eng | Corrective Action Action Descri | Section B | Sign & | Verification Section C | Approval Chief Eng | Approval QC Inspector |
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NOTE: Date & initial all entries

H:\FORMS\Quality Assurance\approved QA\NCRWO RevE

NO. \$250

AWS D17.1.2001 QUALIFICATION TEST RECORD

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| Name: Darcline 20 | 40// | | | | | | | | |
| Job number: 66677 | | | | | | | | | |
| Part number: <u>\(\Delta 3397 - OQ 3 \) \(\) \(\) \(\)</u> | | | | | | | | | |
| Description: 339/ | | | | | | | | | |
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| Base materiel: | | | | | | | | | |
| Current: AC[\(\sum_{\substack}\)] DC[] | | | | | | | | | |
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| TEST RI | EQUIREMENTS AND RESULTS | | | | | | | | |
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| Visual: | pass[/] fail[] | | | | | | | | |
| Penetration: | pass[Y] fail[] | | | | | | | | |
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| UNACCEPTABLE | | | | | | | | | |
| | - / | | | | | | | | |
| Cracks: | pass[Y] fail[] | | | | | | | | |
| Undercut: | pass[X] fail[] | | | | | | | | |
| Pin holes: | pass[X] fail[] | | | | | | | | |
| Overlap (cold lap) | pass[X] fail[] | | | | | | | | |
| Porosity (surface): | pass[x] fail[] | | | | | | | | |
| Coloration: | pass[X] fail[] | | | | | | | | |
| 4. | · · · · · · · · · · · · · · · · · · · | | | | | | | | |
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| Qualifier (1.1.1.1.1.1.) | Date of Test Coupon //・ひ生・気と | | | | | | | | |
| n 11 114 | Date of Test Coupon 1/04-38 Date of Test Coupon 1/-64-28 | | | | | | | | |
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| The state of the s | | | | | | | | | |

The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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